

ABSTRACT

A boundary acoustic wave device having superior resonance properties and filter properties is provided, 5 which can effectively suppress spurious signals caused by an acoustic wave confined between a boundary surface along which a boundary acoustic wave propagates and a surface of a medium layer. In the boundary acoustic wave device described above, at the boundary between a  $\text{LiNbO}_3$  substrate 10 used as a first medium layer having a relatively high sound velocity and a  $\text{SiO}_2$  film used as a second medium layer having a relatively low sound velocity, an IDT as an electroacoustic transducer and reflectors are disposed, and in the upper surface of the  $\text{SiO}_2$  film, a plurality of 15 grooves is formed so as to provide recess portions and/or protrusion portions.